

STATES DEPARTMENT OF COMMERCE **Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
08/985,380	12/04/97	COOPER		E	TI-23516
				EXAMINER	
023494 WM02/0323 TEXAS INSTRUMENTS INCORPORATED			23	SNIF7F	K A
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DALLAS TX	75265			2651	12

03/23/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 08/985.380

Applicant(s)

Examiner

ner Group Art Unit
ANDREW L. SNIEZEK 2651

Cooper

Responsive to communication(s) filed on Mar 5, 2001 This action is FINAL. ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. A shortened statutory period for response to this action is set to expire ____three _ month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a). Disposition of Claims Of the above, claim(s) 1-10 and 19-21 is/are withdrawn from consideration. Claim(s) ______ is/are allowed. ☐ Claim(s) 11-18 is/are rejected. Claim(s) ______ is/are objected to. ☐ Claims ______ are subject to restriction or election requirement. **Application Papers** ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948. ☐ The drawing(s) filed on ______ is/are objected to by the Examiner. ☐ The proposed drawing correction, filed on ______ is ☐approved ☐disapproved. ☐ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received. ☐ received in Application No. (Series Code/Serial Number) received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) Notice of References Cited, PTO-892 ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____ ☐ Interview Summary, PTO-413 ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948 ☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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1. The request filed on 3/5/01 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 08/985,380 is acceptable and a CPA has been established. An action on the CPA follows.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 11-13 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. in view of Moon.

Note for example figure 2 of Suzuki et al. along with corresponding disclosure which teaches the limitations including ADC, DAC, a digital signal processor and power amplifier which operate substantially as set forth in claims 11-13 and 16-18. Independent claim 11 further sets forth that the digital processor operates "based on an expected response of the actuator to a feed forward control signal". Although such a feature is not specifically taught by Suzuki et al., such a feature is notoriously well known as seen from Moon, (columns 14-15 and figures 6A, 6B) to achieve a desired performance level of the drive. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the use of disk drive characteristics as taught by Moon in the processing operation as taught by Suzuki et al. to achieve a desired performance level of a drive.

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4. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. and Moon as applied to claims 11-13 and 16-18 above, and further in view of official notice.

Suzuki et al. and Moon as applied teach the claimed invention as discussed above. Claims 14 and 15 further set forth that the digital processor and the digital-to-analog convertor are placed on a single semiconductor material, i.e. silicon. It is notoriously well known in the art to integrate plural circuits into a single semiconductor chip (silicon based) to reduce manufacturing cost and to increase reliability. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the corresponding circuit arrangement in Suzuki et al. and Morris as applied such that they are incorporated on the same silicon chip to reduce manufacturing cost and to increase reliability.

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wadaka et al. and Smayling are cited for teaching the integration of a plurality of circuits on a single chip.
- 6. Applicant's arguments with respect to claims 11-18 have been considered but are moot in view of the new ground(s) of rejection.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L. Sniezek whose telephone and VoiceMail number is (703) 308-1602. If a plurality of attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, D. Hudspeth, can be reached on (703) 308-4825

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The appropriate fax phone number for the organization (Group 2650) where this application or proceeding is assigned is (703) 308-9051.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Andrew L. Sniezek Primary Examiner Art Unit 2651